

Recovery Plan Action Status**Plan Name: Fanshell (Mussel)****Plan Status: Final****Plan Date: 09-Jul-91****Lead Agency: USFWS****Lead Office: Kentucky Ecological Services Field Office****(502)
695-0468)**

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
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Fanshell (Cyprogenia stegaria)	1	1.1	Continue to utilize existing legislation and regulations to protect species and its habitat	Ongoing Current	Prior to FY 1995		National Park Service, U.S. Fish and Wildlife Service, The Nature Conservancy, Indiana Department of Natural Resources, Ohio Department of Natural Resources, Alabama Department of Conservation and Natural Resources, Tennessee Valley Authority , Tennessee Wildlife Resources Agency , Tennessee Department of Conservation , Illinois Department of Conservation, Kentucky Department of Fish and Wildlife Resources, Kentucky State Nature Preserves Commission, Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, West Virginia Department of Natural Resources, U.S. Fish and Wildlife enhancement, USFWS Regional Office 5, USFWS Regional Office 3, USFWS Regional Office 4, Illinois State Natural History Survey Division, Pennsylvania Department of Environmental Resources, Pennsylvania Fish Commission	Management	Internal Administrative	

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Fanshell (Cyprogenia stegaria)	2	1.2.1-1.2.2	Meet with local governmental officials and business interests and elicit their support for recovery	Ongoing Current	Prior to FY 1995		National Park Service, The Nature Conservancy, Indiana Department of Natural Resources, Ohio Department of Natural Resources, Alabama Department of Conservation and Natural Resources, Tennessee Valley Authority , Tennessee Wildlife Resources Agency , Tennessee Department of COnservation , Illinois Department of Conservation, Kentucky Department of Fish and Wildlife Resources, Kentucky State Nature Preserves Commission, Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, West Virginia Department of Natural Resources, U.S. Fish and Wildlife enhancement, USFWS Regional Office 5, USFWS Regional Office 3, USFWS Regional Office 4, Illinois State Natural History Survey Division, Pennsylvania Department of Environmental Resources, Pennsylvania Fish Commission	Management: General	Internal Technical Assistance	

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Fanshell (Cyprogenia stegaria)	1	1.2.3	Develop information and education program and present	Ongoing Current	Prior to FY 1995		National Park Service, U.S. Fish and Wildlife Service, The Nature Conservancy, Indiana Department of Natural Resources, Ohio Department of Natural Resources, Alabama Department of Conservation and Natural Resources, Tennessee Valley Authority , Tennessee Wildlife Resources Agency , Tennessee Department of Conservation , Illinois Department of Conservation, Kentucky Department of Fish and Wildlife Resources, Kentucky State Nature Preserves Commission, Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, West Virginia Department of Natural Resources, U.S. Fish and Wildlife enhancement, USFWS Regional Office 5, USFWS Regional Office 3, USFWS Regional Office 4, Illinois State Natural History Survey Division, Pennsylvania Department of Environmental Resources, Pennsylvania Fish Commission	Other: Information and Education	Contract	Task duration: 1 year to develop, then continuous

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Fanshell (Cyprogenia stegaria)	2	1.3	Consider use of land acquisition to protect the species	Ongoing Not Current	Prior to FY 1995		National Park Service, The Nature Conservancy, Indiana Department of Natural Resources, Ohio Department of Natural Resources, Alabama Department of Conservation and Natural Resources, Tennessee Valley Authority , Tennessee Wildlife Resources Agency , Tennessee Department of Conservation , Illinois Department of Conservation, Kentucky Department of Fish and Wildlife Resources, Kentucky State Nature Preserves Commission, Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, West Virginia Department of Natural Resources, U.S. Fish and Wildlife enhancement, USFWS Regional Office 5, USFWS Regional Office 3, USFWS Regional Office 4, Illinois State Natural History Survey Division, Pennsylvania Department of Environmental Resources, Pennsylvania Fish Commission	Acquisition: General	Internal Administrative	Pendleton Island on Clinch River in Virginia (TNC)

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Fanshell (Cyprogenia stegaria)	1	2.1-2.4	Conduct research necessary for species management and recovery; i.e., habitat requirements, biology, and threat analysis	Ongoing Current	Prior to FY 1995		National Park Service, U.S. Fish and Wildlife Service, The Nature Conservancy, Indiana Department of Natural Resources, Ohio Department of Natural Resources, Alabama Department of Conservation and Natural Resources, Tennessee Valley Authority , Tennessee Wildlife Resources Agency , Tennessee Department of Conservation , Illinois Department of Conservation, Kentucky Department of Fish and Wildlife Resources, Kentucky State Nature Preserves Commission, Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, West Virginia Department of Natural Resources, U.S. Fish and Wildlife enhancement, USFWS Regional Office 5, USFWS Regional Office 3, USFWS Regional Office 4, Illinois State Natural History Survey Division, Pennsylvania Department of Environmental Resources, Pennsylvania Fish Commission	Research	Contract	The KY Dept. of Fish and Wildlife Resources continues to propagate the species in their facility (Center for Mollusk Conservation); 1000s of juveniles were produced in FY05 and FY06. CMC continues to hold adults from the Licking River and Rolling Fork (Salt) River.

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Fanshell (Cyprogenia stegaria)	1	2.5	Based on biological and threat analysis, investigate need for management and implement where needed	Ongoing Current	Prior to FY 1995		National Park Service, U.S. Fish and Wildlife Service, The Nature Conservancy, Indiana Department of Natural Resources, Ohio Department of Natural Resources, Alabama Department of Conservation and Natural Resources, Tennessee Valley Authority , Tennessee Wildlife Resources Agency , Tennessee Department of Conservation , Illinois Department of Conservation, Kentucky Department of Fish and Wildlife Resources, Kentucky State Nature Preserves Commission, Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, West Virginia Department of Natural Resources, U.S. Fish and Wildlife enhancement, USFWS Regional Office 5, USFWS Regional Office 3, USFWS Regional Office 4, Illinois State Natural History Survey Division, Pennsylvania Department of Environmental Resources, Pennsylvania Fish Commission	Management	Contract	Priority 1, 2, or 3 (depending on result of 2.1, 2.2, 2.3 and 2.4)

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Fanshell (Cyprogenia stegaria)	3	2.6	Determine number of individuals required to maintain viable population.	Ongoing Current	FY 2000 - FY 2004		National Park Service, The Nature Conservancy, Indiana Department of Natural Resources, Ohio Department of Natural Resources, Alabama Department of Conservation and Natural Resources, Tennessee Valley Authority , Tennessee Wildlife Resources Agency , Tennessee Department of Conservation , Illinois Department of Conservation, Kentucky Department of Fish and Wildlife Resources, Kentucky State Nature Preserves Commission, Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, West Virginia Department of Natural Resources, U.S. Fish and Wildlife enhancement, USFWS Regional Office 5, USFWS Regional Office 3, USFWS Regional Office 4, Illinois State Natural History Survey Division, Pennsylvania Department of Environmental Resources, Pennsylvania Fish Commission	Research	Contract	

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Fanshell (Cyprogenia stegaria)	1	3	Search for additional populations and suitable habitat	Ongoing Current	Prior to FY 1995		National Park Service, U.S. Fish and Wildlife Service, The Nature Conservancy, Indiana Department of Natural Resources, Ohio Department of Natural Resources, Alabama Department of Conservation and Natural Resources, Tennessee Valley Authority , Tennessee Wildlife Resources Agency , Tennessee Department of Conservation , Illinois Department of Conservation, Kentucky Department of Fish and Wildlife Resources, Kentucky State Nature Preserves Commission, Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, West Virginia Department of Natural Resources, U.S. Fish and Wildlife enhancement, USFWS Regional Office 5, USFWS Regional Office 3, USFWS Regional Office 4, Illinois State Natural History Survey Division, Pennsylvania Department of Environmental Resources, Pennsylvania Fish Commission	Research: General	Contract	The KY Dept of Fish and Wildlife Res continues to search Kentucky rivers/streams each year for new populations of the species and to evalutate the species' status in KY - primarily the Licking, Rolling Fork, and Green River systems

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Fanshell (Cyprogenia stegaria)	1	4	Develop techniques, select sites, reintroduce the species back into historic habitat, augment populations, and protect any populations established	Ongoing Current	FY 1995 - FY 1999		National Park Service, U.S. Fish and Wildlife Service, The Nature Conservancy, Indiana Department of Natural Resources, Ohio Department of Natural Resources, Alabama Department of Conservation and Natural Resources, Tennessee Valley Authority , Tennessee Wildlife Resources Agency , Tennessee Department of Conservation , Illinois Department of Conservation, Kentucky Department of Fish and Wildlife Resources, Kentucky State Nature Preserves Commission, Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, West Virginia Department of Natural Resources, U.S. Fish and Wildlife enhancement, USFWS Regional Office 5, USFWS Regional Office 3, USFWS Regional Office 4, Illinois State Natural History Survey Division, Pennsylvania Department of Environmental Resources, Pennsylvania Fish Commission	Research: Reintroduction	Contract	Task duration: 3 years (protection continues); reintroduction work being done by Virginia Tech and the Center for Mollusk Conservation (Ky Dept. of Fish & Wildlife Resources). Small juveniles (<1mm) have been released by KDFWR (Green River) and Va Tech (Clinch River system), but no grown-out inds (15-20mm) have been released yet due to propagation difficulties.

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Fanshell (Cyprogenia stegaria)	1	5	Develop and implement cryopreservation	Not Started			National Park Service, U.S. Fish and Wildlife Service, The Nature Conservancy, Indiana Department of Natural Resources, Ohio Department of Natural Resources, Alabama Department of Conservation and Natural Resources, Tennessee Valley Authority , Tennessee Wildlife Resources Agency , Tennessee Department of Conservation , Illinois Department of Conservation, Kentucky Department of Fish and Wildlife Resources, Kentucky State Nature Preserves Commission, Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, West Virginia Department of Natural Resources, U.S. Fish and Wildlife enhancement, USFWS Regional Office 5, USFWS Regional Office 3, USFWS Regional Office 4, Illinois State Natural History Survey Division, Pennsylvania Department of Environmental Resources, Pennsylvania Fish Commission	Research	Labor type not yet selected	

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Fanshell (Cyprogenia stegaria)	2	6	Develop and implement a monitoring program	Ongoing Current	Prior to FY 1995		National Park Service, The Nature Conservancy, Indiana Department of Natural Resources, Ohio Department of Natural Resources, Alabama Department of Conservation and Natural Resources, Tennessee Valley Authority , Tennessee Wildlife Resources Agency , Tennessee Department of Conservation , Illinois Department of Conservation, Kentucky Department of Fish and Wildlife Resources, Kentucky State Nature Preserves Commission, Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, West Virginia Department of Natural Resources, U.S. Fish and Wildlife enhancement, USFWS Regional Office 5, USFWS Regional Office 3, USFWS Regional Office 4, Illinois State Natural History Survey Division, Pennsylvania Department of Environmental Resources, Pennsylvania Fish Commission	Research: General	Contract	Biennial

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Fanshell (Cyprogenia stegaria)	3	7	Annually assess recovery program and modify program and plan where required.	Ongoing Current	FY 2008		National Park Service, The Nature Conservancy, Indiana Department of Natural Resources, Ohio Department of Natural Resources, Alabama Department of Conservation and Natural Resources, Tennessee Valley Authority , Tennessee Wildlife Resources Agency , Tennessee Department of Conservation , Illinois Department of Conservation, Kentucky Department of Fish and Wildlife Resources, Kentucky State Nature Preserves Commission, Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, West Virginia Department of Natural Resources, U.S. Fish and Wildlife enhancement, USFWS Regional Office 5, USFWS Regional Office 3, USFWS Regional Office 4, Illinois State Natural History Survey Division, Pennsylvania Department of Environmental Resources, Pennsylvania Fish Commission	Management: Planning, Management: Population Monitoring, Management: Propagation, Management: Reintroduction, Research: Management Techniques, Research: Population Assessment, Research: Population Surveys, Research: Reintroduction, Research: Taxonomic Studies	Contract, Internal Technical Assistance, Species Expert	KDFWR, KFO, Va Tech, and other partners work cooperatively and discuss recovery progress each year.